



EMPOWERING PROCESS MANAGEMENT



J Type FIBER GLASS Insulated & Sheathed Thermocouple Wire Max. Temp. Up to 500 °C



J TYPE THERMOCOUPLE GRADE FIBER GLASS WIRES are generally used to manufacture FLEXIBLE BAYONET THERMOCOUPLE & EXTENSION GRADE wire is commonly used to link the thermocouple to control instrumentation. or can used to connect to data loggers via thermocouple connectors.

TYPE OF TC	Metal Alloy + ve leg	Metal Alloy – ve leg
Jt / Jx	FE	Cu Ni

APPLICATIONS

- Manufacturing of Temperature Sensors
- Furnaces & Ovens
- Plastic Processing Equipments
- Heat Treatment
- Thermocouple Circuits
- Various Processing Industries

PRODUCT FEATURES

- Continuous use up to 400 °C
- Single exposure up to 600 °C
- Good Thermal Durability & Strength
- Flame Retardant
- Superior Abrasion Resistance
- Better flexibility

PRODUCT SPECIFICATIONS:

Conductor	Solid or stranded thermocouple original & extension grade wires from 12 AWG to 24 AWG (2.44mm to 0.63mm)
Core Insulation	Braided Fiber Glass with high temperature impregnation *
Construction	Parallel Conductors
No. of Pair	1 (2 Core)
Outer Sheath	Braided Fiber Glass with high temperature impregnation *
SS JACKET	Outside SS Metal Over Braid
Color Coding	Confirms to ANSI MC 96.1 (International Color Codes available), Refer Table

- Impregnation maintained up to 180 °C. Option for supply of wire without impregnation for continuous operation at elevated temperature.
- Optional construction of twisted conductors.
- Duplex construction are also available
- Optional Color coding: IEC 60584 – 3, BS 1843, DIN 13711, JIS C 1610 – 1981, NFC 42334 as per requirement
- Thermocouple wires are normally supplied to meet tolerance above 0 °C. If material is reqd. to meet tolerance below 0 °C, the purchaser should clarify the same in Purchase Order. Special selection of material is reqd.
- Initial calibration & Tolerance suggested, its requirement should be discussed well in advance before placing the order.

Initial Calibration Tolerances as per ASTM E230 and ANSI MC96.1

Thermocouple Designation	Temperature Range °C (°F)	Standard Grade Limits °C (°F) whichever is greater	Tolerance-Reference Junction 0°C (32 °F)
			Special Grade Limits °C(°F) Whichever is greater
Thermocouple Grade Wires			
Jt	0 (32) to 1250 (2282) -200 (-328) to 0 (32)	±2.2 (4.0) or ±0.75% ±2.2 (4.0) or ±2%	±1.1 (2.0) or 0.4% -----
Extension / Compensating Grade Wires			
Jx	32 (0) to 200 (212)	±2.2 (4.0)	



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